Beam Power Tube

CERMOLOX® RUGGEDIZED TYPE — INTEGRAL RADIATOR
FORCED-AIR COOLED — 40 WATTS CW POWER OUTPUT AT 1215 Mc/s
MATRIX-TYPE, OXIDE-COATED, UNIPOTENTIAL CATHODE

For Use in Compact Aircraft, Mobile, and Stationary Equipment

The 8596 is the same as the 7457 except for the following items:

MECHANICAL

Maximum Overall Length . . . . 2.036 in
Maximum Diameter . . . . 1.327 in

THERMAL

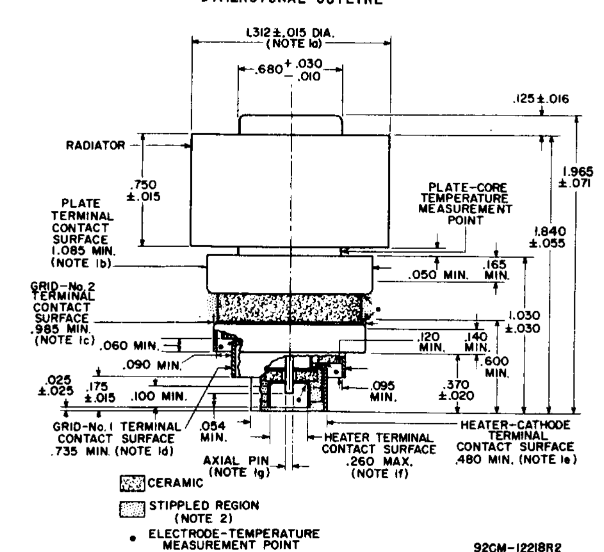
Plate, Grid No.2, Grid No.1, Cathode, and Heater Temperature	250 max	°C
Plate-Core Temperature	250 max	°C

CHARACTERISTICS RANGE VALUES

	Note	*Min*	*Max*	
Zero Bias Plate Current	1,7	390	-	mA

NOTE 7: With dc plate volts = 300, dc grid-No.2 volts = 150, dc grid No.1 volts = 0.

DIMENSIONAL OUTLINE



DIMENSIONS IN INCHES

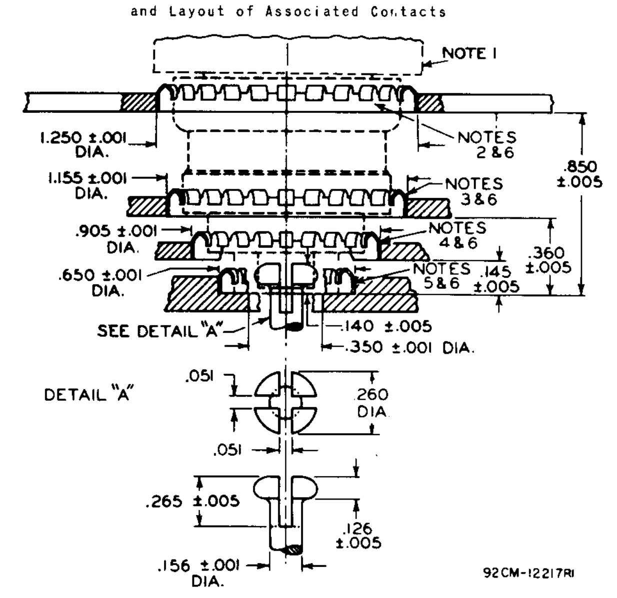
For notes, see next page.

NOTE 1: The following diametrical space requirements accommodate the concentricity of the cylindrical surfaces of the radiator band, axial pin, and each electrode terminal:

a. Radiator Band - 1.376 inch
b. Plate Terminal - 1.119 inch
c. Grid-No. 2 Terminal - 1.019 inch
d. Grid-No. 1 Terminal - 0.764 inch
e. Heater-Cathode Terminal - 0.519 inch
f. Heater Terminal - 0.238 inch
g. Axial Pin - 0.071 inch

NOTE 2: Keep all stippled regions clear. Do not allow contacts or circuit components to protrude into these annular volumes.

PREFERRED MOUNTING ARRANGEMENT
and Layout of Associated Contacts



DIMENSIONS IN INCHES

NOTE 1: If a clamp is used, it must be adjustable in a plane normal to the major tube axis to compensate for variations in concentricity between the radiator cylinder and the contact terminals.

NOTE 2: Contact ring No. 97-252 or finger stock No. 97-380.

NOTE 3: Contact ring No. 97-253 or finger stock No. 97-380.

NOTE 4: Contact ring No. 97-254 or finger stock No. 97-380.

NOTE 5: Contact ring No. 97-255 or finger stock No. 97-380.

NOTE 6: The specified contact ring of preformed finger stock and finger stock No. 97-380 provide adequate electrical contact, but the finger stock No. 97-380 is less susceptible to breakage than the specified contact ring. Both types are made by instruments specialties Co., Little Falls, N. J.